

## EAST Search History

| Ref #    | Hits     | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|----------|----------|--|---|------------------|---------|------------------|
| L12      | 1        | 11 6   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2007/11/29 19:12 |
| L11      | 1        | ((multiple near trellis near cod\$4 near modulat\$4) ((quadrature adj phase) or qpsk) (select\$4 near symbol) (encod\$4 or cod\$4)).clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2007/11/29 19:12 |
| S12<br>4 | 3        | S123 S122 S121   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2007/11/29 19:10 |
| L9       | 3        | L8 L7 L6   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2007/11/29 19:10 |
| L8       | 14       | (turbo near trellis) and (space near time)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/11/29 19:10 |
| L7       | 22728354 | @ad<"20020626"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/11/29 19:10 |
| L6       | 20091    | L1 L2 L3 L4 L5   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/11/29 19:10 |
| L5       | 9137     | 370/319,320,321,335,336,337,342,344,347.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/11/29 19:10 |

## EAST Search History

|          |          |   |   |    |    |                  |
|----------|----------|---|---|----|----|------------------|
| L4       | 2679     | 714/792,795,786.ccls.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/29 19:10 |
| L3       | 107      | 704/242.ccls.                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/29 19:10 |
| L2       | 3678     | 455/101,25,73,103,128.ccls.                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/29 19:10 |
| L1       | 5448     | 375/219,220,265,267,299,347.ccls.                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/29 19:10 |
| S12<br>3 | 14       | (turbo near trellis) and (space near<br>time)     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/28 13:15 |
| S12<br>2 | 22728346 | @ad<"20020626"                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/28 13:14 |
| S12<br>1 | 20080    | S116 S117 S118 S119 S120                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/28 13:14 |
| S12<br>0 | 9133     | 370/319,320,321,335,336,337,342,<br>344,347.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/28 13:14 |

## EAST Search History

|          |          |   |   |      |    |                  |
|----------|----------|---|---|------|----|------------------|
| S11<br>9 | 2678     | 714/792,795,786.ccls.                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/11/28 13:14 |
| S11<br>8 | 107      | 704/242.ccls.                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/11/28 13:14 |
| S11<br>7 | 3676     | 455/101,25,73,103,128.ccls.                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/11/28 13:14 |
| S11<br>6 | 5444     | 375/219,220,265,267,299,347.ccls.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/11/28 13:14 |
| S11<br>2 | 8        | (turbo near trellis) and (space near time) and S111 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/11/28 13:14 |
| S11<br>1 | 17417    | S106 S107 S108 S109 S110                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/11/28 13:14 |
| S84      | 22634827 | @ad<"20020626"                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/11/28 13:14 |
| S11<br>5 | 25       | multiple trellis code\$1 modulation                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2007/02/01 23:59 |

## EAST Search History

|          |      |   |   |      |     |                  |
|----------|------|---|---|------|-----|------------------|
| S11<br>4 | 6    | turbo multiple trellis code\$1<br>modulation          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON  | 2007/02/01 23:59 |
| S11<br>3 | 4    | ((("20030174782") or ("6584593"))).PN.                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | OFF | 2007/02/01 23:48 |
| S1       | 19   | (pieter near rooyen).in.                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | OFF | 2007/02/01 23:46 |
| S72      | 0    | (turbo near trellis) and (space near<br>time) and S71 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON  | 2006/09/13 14:16 |
| S11<br>0 | 7899 | 370/319,320,321,335,336,337,342,<br>344,347.ccls.     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON  | 2006/09/13 14:15 |
| S10<br>9 | 2448 | 714/792,795,786.ccls.                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON  | 2006/09/13 14:15 |
| S10<br>8 | 100  | 704/242.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON  | 2006/09/13 14:15 |
| S10<br>7 | 3220 | 455/101,25,73,103,128.ccls.                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON  | 2006/09/13 14:15 |

## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S10<br>6 | 4548 | 375/219,220,265,267,299,347.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2006/09/13 14:15 |
| S94      | 8    | convolution\$2 and S93  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2006/09/13 14:04 |
| S93      | 13   | (US-20020105928-\$ or<br>US-20030072395-\$ or<br>US-20020101934-\$ or<br>US-20020150065-\$ or<br>US-20030133516-\$ or<br>US-20030043928-\$ or<br>US-20040082303-\$ or<br>US-20030174782-\$ or<br>US-20050069021-\$).did. or<br>(US-6842494-\$ or US-6584593-\$ or<br>US-6127971-\$ or US-6853688-\$).did. | US-PGPUB;<br>USPAT  | OR  | ON  | 2006/09/13 10:43 |
| S92      | 2    | ("20030174782").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2006/09/13 10:42 |
| S91      | 4    | tdma ofdm cdma gmsk cck qpsk fsk<br>psk qam   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2006/09/13 00:16 |
| S90      | 1    | interleav\$4 and S89  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2006/09/13 00:16 |
| S89      | 2    | ("20030174782").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2006/09/13 00:12 |

## EAST Search History

|     |          |   |   |    |    |                  |
|-----|----------|---|---|----|----|------------------|
| S88 | 59       | antenna and S86 and S87   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/08 18:43 |
| S87 | 22634827 | @ad<"20020626"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/08 18:42 |
| S86 | 327      | (turbo adj cod\$4) with (trellis tcm)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/08 18:42 |
| S85 | 41       | S83 and S84   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/08 18:42 |
| S83 | 84       | tcm and S79   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/08 17:49 |
| S82 | 82       | tcm and S79   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/09/08 17:47 |
| S81 | 49       | ("3633107"   "3978408"   "4001692"  <br>"4099121"   "4369516"   "4567464"  <br>"4577332"   "4675880"   "4733402"  <br>"4763331"   "4953183"   "5022053"  <br>"5029185"   "5088113"   "5101501"  <br>"5109390"   "5202903"   "5283780"  <br>"5305353"   "5319677"   "5396518"  <br>"5416797"   "5418798"   "5442627"  <br>"5457712"   "5461646"   "5461696"  <br>"5479448"   "5481572"   "5499272"  <br>"5553102"   "5613219"   "5675590"  <br>"5790570"   "5848103"   "5924034"  <br>"5943372"   "5949833"   "5960039"  <br>"5991331"   "6034987"   "6094465"  <br>"6115427"   "6144711"   "6185258"  <br>"6188736"   "6393074"   "6470043"  <br>"6549585").PN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/09/08 17:47 |

## EAST Search History

|     |       |   |   |    |     |                  |
|-----|-------|---|---|----|-----|------------------|
| S80 | 17    | S78 and S79   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/08 17:35 |
| S79 | 44727 | space near time   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/08 17:35 |
| S78 | 21    | trellis and S77   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/08 17:35 |
| S77 | 44    | ("6115427").URPN.   | USPAT   | OR | ON  | 2006/09/08 17:32 |
| S76 | 14    | ("3633107"   "4457004"   "4489418"  <br>"4520490"   "4597090"   "4945549"  <br>"5029185"   "5305353"   "5396518"  <br>"5406585"   "5418798"   "5479448"  <br>"5659578"   "5737365").PN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/09/08 17:27 |
| S75 | 5     | ("5479448"   "6115427"   "6127971"  <br>"6185258"   "6430231").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/09/08 15:28 |
| S74 | 235   | (space near time) same trellis  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/08 15:26 |
| S73 | 2     | (trellis) and (space near time) and S71   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/16 15:50 |
| S70 | 4     | (turbo near trellis) same (space near<br>time)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/16 15:50 |
| S71 | 5     | ("5479448"   "6115427"   "6127971"  <br>"6185258"   "6430231").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/16 15:43 |

## EAST Search History

|     |       |                                   |   |    |     |                  |
|-----|-------|-----------------------------------|---|----|-----|------------------|
| S69 | 16    | S63 and S68                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 15:17 |
| S68 | 3581  | 375/219,220,265,267,299,347.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 15:16 |
| S67 | 35    | S66 and S65                       | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR | OFF | 2005/04/25 15:16 |
| S66 | 23839 | (space near time)                 | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR | OFF | 2005/04/25 15:16 |
| S65 | 194   | interleaver and S62               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 15:16 |
| S64 | 6     | S62 and S63                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 15:16 |
| S62 | 2829  | 375/219,220,265,267,299,347.ccls. | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR | OFF | 2005/04/25 15:16 |
| S39 | 23839 | (space near time)                 | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR | OFF | 2005/04/25 15:16 |
| S36 | 70    | interleaver and S34               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 15:16 |



## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S63 | 50  | (space near time) and interleav\$4 and (turbo near encod\$4)                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 15:15 |
| S8  | 50  | (space near time) and interleav\$4 and (turbo near encod\$4)                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 15:15 |
| S61 | 4   | ((("20030218973") or ("20030072381") or ("20020101934") or ("20030133516"))).PN. | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | OR | OFF | 2005/04/25 15:12 |
| S60 | 1   | ("20030112745").PN.  | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | OR | OFF | 2005/04/25 15:10 |
| S59 | 4   | ((("4922507") or ("5023889"))).PN.   | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | OR | OFF | 2005/04/25 15:09 |
| S58 | 4   | (fading near correlation) same "0.5"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 15:09 |
| S57 | 3   | S56 and "0.5"  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/04/25 14:43 |
| S56 | 12  | (plurality near antenna\$1) same S54   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/04/25 14:43 |
| S54 | 152 | fading near correlation  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 14:43 |
| S55 | 1   | (space near time) and (turbo near trellis) and S54                               | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/04/25 14:41 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S53 | 82  | fading near correlation   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR | OFF | 2005/04/25 14:41 |
| S25 | 6   | (space near time) and (turbo near trellis) and (transceiver or (receiv\$4 same transmi\$6)) | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/04/25 14:41 |
| S52 | 37  | tcm same interleaver  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR | OFF | 2005/04/25 14:23 |
| S51 | 6   | S48 and turbo and (space near time)   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/04/25 13:53 |
| S50 | 6   | S49 and qpsk  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/04/25 13:53 |
| S49 | 6   | (space near time) and S48   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/04/25 13:50 |
| S48 | 162 | qpsk near map\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 13:50 |
| S47 | 6   | (space near time) and S45   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/04/25 13:50 |
| S46 | 1   | (space near time) and (turbo near trellis) and S45  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/04/25 11:30 |
| S45 | 162 | qpsk near map\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 11:29 |
| S44 | 77  | qpsk near map\$4  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR | OFF | 2005/04/25 11:29 |
| S43 | 2   | ("6584593").PN.   | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | OR | OFF | 2005/04/25 11:29 |

## EAST Search History

|     |       |                                     |   |    |     |                  |
|-----|-------|-------------------------------------|---|----|-----|------------------|
| S42 | 13    | interleaver and S41                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 11:24 |
| S41 | 294   | transceiver and S40                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 11:00 |
| S40 | 1356  | S39 and (receiver with transmitter) | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR | OFF | 2005/04/25 11:00 |
| S38 | 16    | interleaver and S37                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 11:00 |
| S37 | 382   | transceiver and S34                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 11:00 |
| S33 | 1705  | S32 and (receiver with transmitter) | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR | OFF | 2005/04/25 11:00 |
| S32 | 30466 | sttm or stm or (space near time)    | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR | OFF | 2005/04/25 11:00 |
| S35 | 0     | (turbo near trellis) and S34        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 10:59 |
| S34 | 1705  | S32 and (receiver with transmitter) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 10:58 |

## EAST Search History

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S26 | 6    | (space near time) and (turbo near trellis) and (transceiver or (receiv\$4 same transmi\$6)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 10:58 |
| S31 | 6735 | sttm or stm   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR | OFF | 2005/04/25 10:57 |
| S30 | 52   | (space near time) and S27 and interleaver   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 10:49 |
| S29 | 1143 | (space near time) and S27   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 10:49 |
| S28 | 1    | (space near time) and (turbo near trellis) and S27  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 10:49 |
| S27 | 1143 | (space near time) and transceiver   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 10:48 |
| S24 | 4    | interleaver and (space near time) and (turbo near trellis)                                  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/04/25 10:46 |
| S23 | 0    | interleaver same (space near time) same (turbo near trellis)                                | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/04/25 10:27 |
| S22 | 5    | ("5479448"   "6115427"   "6127971"   "6185258"   "6430231").PN.                             | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2005/04/25 10:27 |
| S21 | 23   | S20 and (space near time)   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR | OFF | 2005/04/25 10:01 |

## EAST Search History

|     |    |   |  |    |     |                  |
|-----|----|---|--|----|-----|------------------|
| S16 | 46 | (diversity near gain) same (space near time)  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 10:01 |
| S20 | 45 | (diversity near gain) and (coding near gain)  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 10:00 |
| S19 | 3  | (diversity with cod\$4) and (space near time) and (turbo near trellis)  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 09:59 |
| S18 | 0  | S16 and S17   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 09:58 |
| S17 | 77 | (coding near gain) same tcm   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 09:58 |
| S14 | 26 | (diversity near gain) with (space near time)  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 09:58 |
| S13 | 48 | (coding near gain) with tcm   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 09:58 |
| S15 | 0  | S13 and S14   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 09:57 |
| S12 | 1  | S11 and block and convolution\$4  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 09:57 |
| S11 | 6  | (US-20030133516-\$ or<br>US-20050069021-\$ or<br>US-20030043928-\$ or<br>US-20020150065-\$ or<br>US-20020101934-\$).did. or<br>(US-6584593-\$).did. | US-PGPUB;<br>USPAT                         | OR | OFF | 2005/04/25 09:50 |
| S10 | 9  | ("5191598"   "5907582"   "5970085"  <br>"5978365"   "5983384"   "6061387"  <br>"6128330"   "6356528"   "6480503").<br>PN.                           | US-PGPUB;<br>USPAT;<br>USOCR               | OR | OFF | 2005/04/25 09:45 |
| S9  | 0  | ("2003/0021355").URPN.  | USPAT                                      | OR | OFF | 2005/04/25 09:41 |

## EAST Search History

|    |    |                          |   |    |     |                  |
|----|----|--------------------------|---|----|-----|------------------|
| S7 | 9  | S6 and (space near time) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 09:36 |
| S6 | 29 | S5 and interleav\$4      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 08:31 |
| S5 | 52 | alamouti.in.             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 08:31 |
| S4 | 4  | S3 and encoder           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 08:31 |
| S3 | 20 | S1 S2                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 07:56 |
| S2 | 5  | (danie near wyk).in.     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 07:56 |

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